

FIG. 1

TOS0507-SEC07007

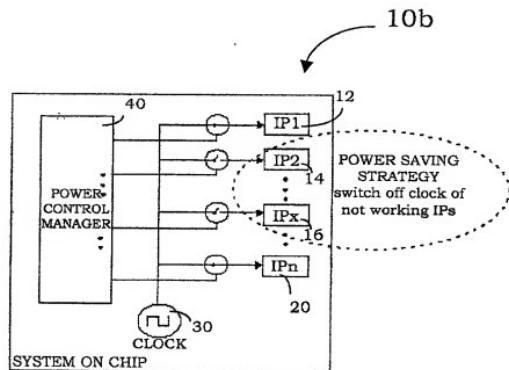


FIG. 2

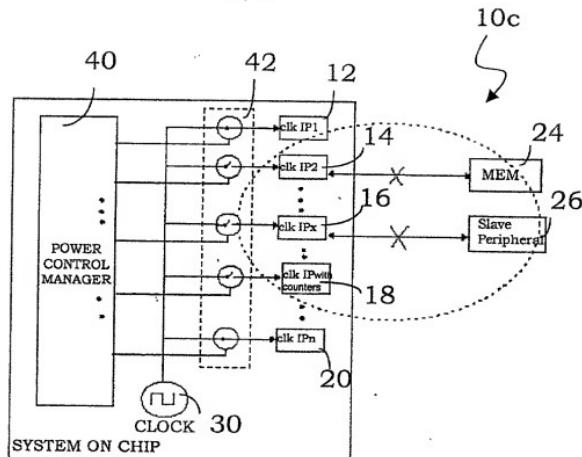


FIG. 3

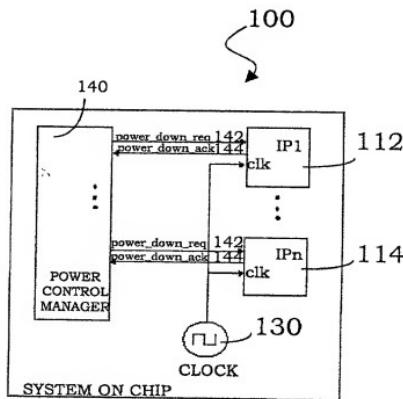


FIG. 4

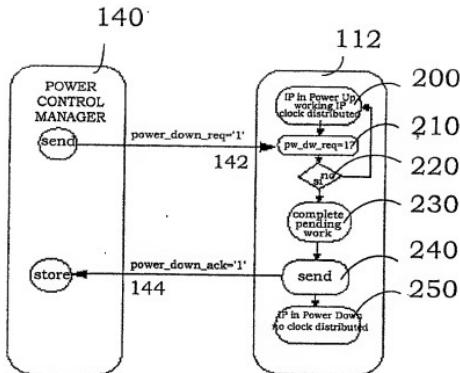


FIG. 5

190

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Power Down Manager:
    sent to the IP the power_down_req signal set to '1';

IP:
    IF power_down_req is asserted (= '1'):
        complete its pending work;
        set power_down_ack to '1';
        stop its own clock => IP halted;
    else
        normal work;

Power Down Manager:
    Stores the value of power_down_ack to allow visibility
    of IP status (power on/off);
  
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FIG. 6

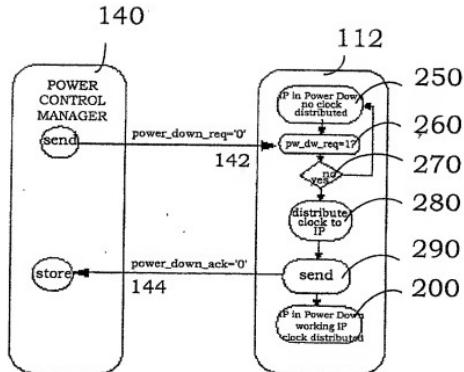


FIG. 7

194

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Power Down Manager:
    sent to the IP the power_down_req signal set to '0';

IP:
    IF power_down_req is de_asserted (= '0'):
        restarts its own clock;
        set power_down_ack = '0';
        restart to work;
    else
        no clock distributed to IP => IP halted;

Power Down Manager:
    Stores the value of power_down_ack to allow visibility
    of IP status (power on/off);

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FIG. 8

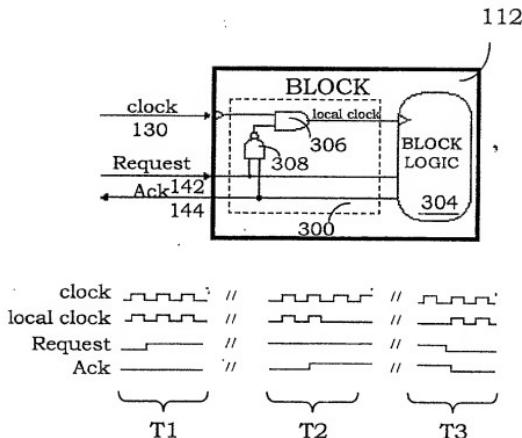


FIG. 9

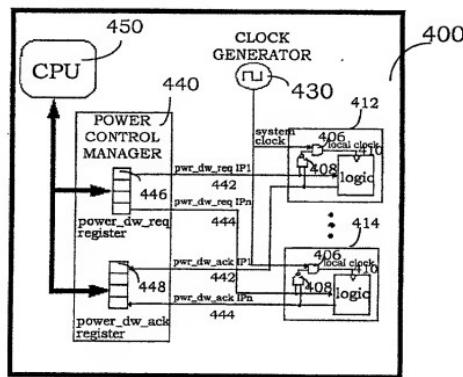


FIG. 10